19990916.ba v02_n669.bam.990916

>From ???@??? Fri Sep 17 08:24:59 1999
Message-Id: <199909170330.d8H3UpF24092@sco.theporch.com>
Date: Thu, 16 Sep 1999 22:30:16 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2669

BOATANCHORS Digest 2669

Topics covered in this issue include:

1) Tube Info.: STV 280/40
   by Andre Guibert <aguibert@sympatico.ca>
2) Re: capacitors across diodes
   by Scott Robinson <spr@earthlink.net>
3) BX-33A
   by "David L. Stinson" <arc5@ix.netcom.com>
4) FFR-49 question
   by "Robert Nickels" <ranickel@mwci.net>
5) FS: A Bunch of Stuff
   by Dave <davidh@getnet.com>
6) RE: capacitors across diodes
   by "Ed Tanton" <n4xy@att.net>
7) Seeing the Tecraft light
   by mnhopkins@juno.com
8) RE: Free Power
   by "Schroeder, Russell G" <Russell.Schroeder@usa.xerox.com>
9) Old FM band
   by cswiger <cswiger@wilma.widomaker.com>
10) Re: Old FM band
   by "Roberta J. Barmore" <rbarmore@indy.net>
11) Millen Vari-Arm VFO
   by "ALLEN,JIM (HP-Cupertino,ex1)" <jim_allen@am.exch.hp.com>
12) wtb hallicrafters S-38 info
   by philip mccoy <dgnova@erols.com>
13) Re: Tube Info.: STV 280/40
   by dma@islandnet.com
14) RE: capacitors across diodes
   by Bill Hawkins <bill@iaxs.net>
15) need 4K-Ultra advice
   by "Ed Santavicca" <santavic@ct.picker.com>
16) Re: Old FM band
   by John Shriver <jas@shiva.com>
17) A novel receiver
   by "John Gibson" <gibsonj@mindspring.com>
18) QST F/S

by BOBFABRIS@delphi.com
19) Surplus / boatanchor sites in San Francisco
by "WF2U" <mbendror@villagenet.com>
20) BA's in the Orlando/Coco Beach area?
by "Benjamin D. Hall" <kd5byb@WT.NET>
21) The Old Radio Museum will be at the Marshfield Mass. Hamfest Saturday. --info--
by "John Dilks, K2TQN" <oldradio@worldnet.att.net>
22) Capacitors across diodes - results!
by "Benjamin D. Hall" <kd5byb@WT.NET>
23) FPM-300 belts.
by "Jim Zellmer" <zellmer@raccoon.com>

Date: Wed, 15 Sep 1999 21:06:25 -0400 (EDT)
Message-Id: <1.5.4.16.19990915205900.1e6f83a6@pop1.sympatico.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Andre Guibert <aguibert@sympatico.ca>
Subject: Tube Info.: STV 280/40

Bonsoir to All
Recently picked up a Marconi CR150 rec. with the above tube,
5 pins, british base, about the size of a 6V6, the big one.
Cannot see inside as there is what`s look like a tube
shielding cap covering everything, should see the three
"girders" holding it, clamped to the bottom with a 1/16
nut and bolt,
Its equivalent is the CV1068 or S280.
No continuity between pins.
Anybody would know its fonction`s` and pin connections?
Andre

Andre Guibert
aguibert@sympatico.ca

Message-ID: <37E050AB.3FC649@earthlink.net>
Date: Wed, 15 Sep 1999 19:06:35 -0700
From: Scott Robinson <spr@earthlink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: capacitors across diodes
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ben and the gang,

I don't think the capators are necessary, but if you use them they should be 2 kV rated. The reason people use capacitors across diodes is that in a bridge rectifier configuration, the entire transformer winding is at an undefined voltage during the time when the two ends are less that 2 diode voltage drops (1.2V) apart since the diodes are open circuit during that time. When the diodes for the other polarity turn on, the winding suddenly moves by a volt or so, and this makes RF noise.

In a CT rectifier configuration, the winding has a center tap that is grounded, avoiding the entire problem.

You will need a power resistor of about 100-150 ohms 5 or 10W between the diode cathodes and the load if you wish to maintain the same output voltage.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Benjamin D. Hall wrote:
>
> Greetings all...
>
> Am in the process of building a solid state 80 rectifier replacement for my RME-45 in a four prong base so that it can be undone easily.
>
> My question: some texts suggest bypassing the solid state diodes with capacitors. 0.01 uF is one suggested value. However, according to the TV-7D/U, my unit has "shorts" - from the AC thru the capacitors.
>
> So, I'm looking for advice: use the caps? Don't use the caps? Please reply privately to me to save list space, I'll summerize responses later...
>
> Thanks and 73,
> Ben
> ---

Message-ID: <37E0520F.5BCF0DF0@ix.netcom.com>
Date: Wed, 15 Sep 1999 21:12:31 -0500

From: "David L. Stinson" <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BX-33A
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

BX-33A is the battery box for signal generator I-130, 100-150MC,
which was used to align the SCR-522 in aircraft, AN/VRC-1
vehicular sets and SCR-624 Forward Air Control field portable sets.
It is part of Test Set I-19-A, which consists of:
CH-93-A Chest
I-139-A Test Set
        (plugs into the SCR-522 to provide local control)
I-95-A Field Strenght Meter
I-130-A Signal Generator with BX-33 battery box.
A special tool roll, cords, etc.

73 DE Dave Stinson AB5S
arc5@ix.netcom.com

Message-ID: <01f801beffec$09660c00$020ccfd1@default>
From: "Robert Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FFR-49 question
Date: Wed, 15 Sep 1999 21:33:18 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

Is anyone familiar with the AN/FFR-49 receiver, built by TMC in the 50's?
I'm curious about the crystal formula for fixed-freq. use, and to know if
any tuning modules were available for use below 2 Mhz..

Thanks and 73,
Bob W9RAN

Message-ID: <37E07069.C6EB5272@getnet.com>
Date: Thu, 16 Sep 1999 04:22:06 +0000
From: Dave <davidh@getnet.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: A Bunch of Stuff

Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

I have the following items for sale. Shipping is included (lower 48 states) unless stated.

Pictures and more details can be seen at:

http://www.getnet.com/~davidh/forsale4.html

250TL/VT-130 Triode - $75+shipping

Heathkit IB-30 Impedance Bridge - $100 + shipping

Heathkit IG-42 Laboratory Signal Generator - $80 + Shipping

Heathkit IM-30 Transistor Tester- $75 + Shipping

1950's Firestone Portable Tube Radio Radio - $25 shipped

Four Amperex 5894 Tubes - $30 shipped

----
73 and tnx for looking,

Dave N7RK

--
****

Dave N7RK - Webmaster CADXA
Phoenix, Arizona   *DXCC Honor Roll*   *WAZ#23 - 75 Meter SSB*

ex-N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor Collector Extraordinaire preferring Hallicrafters, National and what ever else looks interesting!

E-Mail: davidh@getnet.com
My Home Page: http://www.getnet.com/~davidh

Visit the Central Arizona DX Association Home page - http://cadxa.org

----

From: "Ed Tanton" <n4xy@att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: capacitors across diodes
Date: Thu, 16 Sep 1999 01:56:46 -0400
Message-ID: <NBBBJDEEIFDDANGEGHLBMEBCGPAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Scott... a while back (maybe 6 months ago) someone on here gave a very thorough explanation about why you shouldn't do it. It got over my head somewhat, so I simply kept the conclusion: don't! The explanation, in part, was that the resistors are enough. The rest of the explanation involved the capacitor's charge when the AC had cycled to opposite polarity, cutting off the diode. The capacitor still has a charge, and from there it started getting complicated. Easier to not do it, and not worry about that!

72 / 73 Ed N4XY   email: <n4xy@arrl.net>

webpage: http://www.qsl.net/n4xy/

To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 16 Sep 1999 05:56:10 -0500
Subject: Seeing the Tecraft light
Message-ID: <19990916.055613.-166721.1.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: mnhopkins@juno.com

The CARE package from Bob Duckworth contained two bedraggled Tecraft Criterion receive converters and a surprise -- I thought.

These 7X6X2.5 inch boxes were the hot stuff in 1961 when they replaced the longer, taller Tecrafts with all miniature tubes. The new boxes had two Nuvistors and two miniatures. The new machines, in the same gray hammertone, used 6J6 oscillators but the serial numbers (on the bottom on a tag) before #16715 had a 6JK8 mixer while the later ones grounded pin 9 to allow use of a 12AT7. Other differences are in the power supply and, significantly here, the deletion of an RCA jack for a standby function.

Bob's contributions arrived with no crystals and few tubes, but that does not matter to the Tecraft Reference Collection I hold in a State of Texas trust. These things are collected for study. I saw the manual had the standard mimeographed addition telling about the new power supply on the 2M model, serial #16782. It is clearly transitional as the RCA hole just has a plug in it. The 6M model is the older one with the two diodes in the p/s, the RCA jack and serial #16648.

"Say what?" I asked myself. The 6M number is 67 units lower than the change over and the 2M model is 67 units above it. Coincidence? I doubted it. Probably, I told myself, they made the changeover at 67 +/- the stated point and I MIGHT have both the first and last of the types.

Ah well, K4RIG's 2M model brought me back to earth. It is number 17672 so my theory could not be true. So its back to radio archeology for me.

Wonder why Duckworth's late model didn't have the little light to show the power supply is turned on?

de ab5L, michael in dallas, MNHopkins@JUNO.com
Student of Tecraft, ICM and Six Meters' Golden age: 1957-58
Box 226841, Dallas, TX 75222

Content-return: allowed
Date: Thu, 16 Sep 1999 08:39:07 -0400
From: "Schroeder, Russell G" <Russell.Schroeder@usa.xerox.com>
Subject: RE: Free Power
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Schroeder, Russell G" <Russell.Schroeder@usa.xerox.com>
Message-id:
<9F978D0493DBD1119C2D00805FC7361501852EF4@usa0207ms1.eng.mc.xerox.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

If I remember correctly, WLW might have been running 500,000 watts at the time.

73 Russ W2DYY

Russell.Schroeder@usa.xerox.com

-----Original Message-----
From: BOBFABRIS@delphi.com [mailto:BOBFABRIS@delphi.com]
Sent: Wednesday, September 15, 1999 7:34 PM
To: Old Tube Radios
Subject: Free Power

I just ran across this item in the Antique Wireless Jrnl - 1990 - about a subject recently on this forum. An RCA Victor engineer questioned the possibility of getting power from a radio antenna. The response was that, yes, about 200 watts could be received on a loop antenna at distances up to one-quarter mile from the transmitter (WLW, Cincinnati), and could be made to drive a 1/8 horsepower motor. The idea was to drive a small car for publicity purposes. No one knows if anything took place - and, the original proposal was made in March 1934.

Date: Thu, 16 Sep 1999 09:55:45 -0400 (EDT)
From: cswiger <cswiger@wilma.widomaker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Old FM band
Message-ID: <Pine.BSF.3.96.990916095408.23931A-100000@wilma.widomaker.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Y'all

Be sure to come to our lil'ol local Va Beach Hamfest this weekend - we may have the power lines reconnected and the trees cleared out by then, hi. FARfest should fare better.

In other matters, I've an example of an old fm band set, a Philco 42-355 and would like to verify the band plan. The slide rule is labled "FM" on the right and "Call Numbers" on the left, with numbers from 21 on the left to 99 on the right. According to a web site display, the old Fm band went from 42.1 to 49.9 Mc/s. Can one make the leap of logic and assume the 'call numbers' are the one's and tenth's of the 4x.x Mc, i.e., call number 55 would be 45.5 Mc/s? It certainly isn't "museum collector quaility" but found most of it there under the dust. At least loctals and 41's are still inexpensive (per AES).

Chuck
kb4new
cswiger@widomaker.com

Date: Thu, 16 Sep 1999 09:37:42 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Old FM band
Message-ID: <Pine.SUN.4.10.9909160928410.11543-100000@indy3>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Chuck!

Not only is your guess correct, but the FCC even assigned call letters by the same scheme: "W (or K) ## ABC" in which "##" was the ones and tenths of the assigned frequency and "ABC" a requested or random unique sequence of letters.

Of course it was logical and therefore doomed; and RCA wanted to edge out Armstrong and got his band moved up to make room for television and when FM resurfaced, the stations got plain old all-letters callsigns. (The new FM band is 20 mc/s wide anyway, so it would have required three-digit numbers, a little awkward).

The FCC tried the same thing with low-power TV stations (interposing channel number after the W or K) and had pretty much the same effect: stations didn't like it, the rules were changed and many of them asked for and got "normal" broadcast all-letter calls with the suffix "-LP."

A mild bit of trivia, there *are* (FCC-assigned) channel numbers for broadcast radio in the US, starting at the bottom of the AM broadcast band and continuing sequentially through the top of the FM band.

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net   Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Message-ID: <87FB8F5CE210D311B60500A0C9F4871C2A3662@xcup01.cup.hp.com>
From: "ALLEN,JIM (HP-Cupertino,ex1)" <jim_allen@am.exch.hp.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Millen Vari-Arm VFO
Date: Thu, 16 Sep 1999 08:36:13 -0600
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"

I have one of those old Millen VFOs with the dial on the front and the arm
to fine tune the
frequency. It covers 80 Meters, but I need it on 75 Meters. Someone told
me that you can
change a cap inside and get 75 Meters. Anyone ever done it? Which cap do I
need to change and
what value should go in?

If someone would sell me a WRL/Globe 755 or 755A or any other self-powered
VFO that would
work with a Globe 400C, that would be better :)

Thanks,

Jim

NU6AM

Message-ID: <37E11865.930328D0@erols.com>
Date: Thu, 16 Sep 1999 12:18:46 -0400
From: philip mccoy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: wtb hallicrafters S-38 info
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Am restoring a hallicrafters S-38 that is missing the bottom plate. Is
this plate
metal or cardboard ?

Phil dgnova@erols.com

Message-Id: <Version.32.19990916091357.00f31d00@mail.islandnet.com>
Date: Thu, 16 Sep 1999 09:16:39 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: dma@islandnet.com
Subject: Re: Tube Info.: STV 280/40
Cc: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:06 PM 9/15/99 -0400, you wrote:
>   Bonsoir to All

> Recently picked up a Marconi CR150 rec. with the above tube,
> 5 pins, british base, about the size of a 6V6, the big one.
> Cannot see inside as there is what`s look like a tube
> shielding cap covering everything, should see the three
> "girders" holding it, clamped to the bottom with a 1/16
> nut and bolt,
> Its equivalent is the CV1068 or S280.
> No continuity between pins.
> Anybody would know its fonction`s` and pin connections?
> Andre

Bon jour Andre ....

All the STV prefix tubes I could find are voltage regulators. The naming suggests that the last three numbers are the designated voltage. E.g. an STV150 is the equivalent of an 0A2. I suspect the last two numbers relate to current.

Jan Skirroww, VE7DJX

... in sunny Maple Bay, BC, Canada

****
"So many radios, so little time"

http://www.islandnet.com/~dma/Boatanchors/

Information, Parts, Pictures, Articles: The R-390A
and other classic gear.

****

Date: Thu, 16 Sep 1999 11:47:30 -0500 (CDT)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199909161647.LAA29857@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: capacitors across diodes

OTOH, if you have trouble with hum that isn't caused by weak filters or heater-cathode leakage or switching the hot lead in a set designed to switch the cold lead or audio transformers too close to the power xfmr, well, you get the idea. The hum could be caused by switching RF with the power supply diodes. Then putting a small cap across the diodes would be a very good idea.

Would like to see that analysis that said caps across diodes were a bad thing, just don't do it. I expect it applies to a series string of diodes, because a cap across a single diode follows the voltage across that diode very well (for .01 mfd. on down). When the diodes are conducting, the charge stored in each cap is near zero. When they are reverse biased, the voltage divides according to the capacitance ratio, if you can ignore the reverse current in all diodes. If the caps are all equal, and swamp the diode junction capacitance, the voltage will divide equally (swamp means "much greater than", for some reason). Old diodes, near the dawn of the sorry state era, had characteristics in reverse bias that could not be ignored. They also had relatively low PIV ratings, so RC networks were commonly used with diodes in series.

Sometimes it's just amazing what can be done with a medium like the Internet and just not quite enough knowledge, but the ability to speak with authority. I've done it myself, on occasion, but I'm willing to learn from people who have more experience.

Regards,
Bill Hawkins

Message-Id: <199909161718.NAA02548@central.picker.com>
From: "Ed Santavicca" <santavic@ct.picker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 16 Sep 1999 13:02:29 -0500
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: need 4K-Ultra advice

Hi Guys,

Has anyone ever modified a Henry 4K-Ultra to go down to 160m? The amp is factory rated for 3-30mHz. I picked up my amp in inoperative condition with a burnt plate choke. My guess is the choke will have to increase in uhy to go down to 160m. If this is the case, I would like to wind my own rather than get a new one from Henry Radio. Any suggestions?

tnx

Ed

AA8TV
Lakewood, Ohio

Date: Thu, 16 Sep 1999 13:11:48 -0400
Message-Id: <199909161711.NAA23270@brill.shiva.com>

From: John Shriver <jas@shiva.com>
To: Old Tube Radios <boatanchors@theporch.com>
CC: boatanchors@theporch.com
Subject: Re: Old FM band

The assigned channels for the FM band start at 201 and count up. See 47CFR73.201. Channel 201 is 88.1 Mc/s, and so forth. (Fascinating -- the CFR uses Mc/s, not MHz!)

See section 73.201 at
http://www.access.gpo.gov/nara/cfr/waisidx_98/47cfr73_98.html .

Repeater stations are numbered using the channel numbers. For instance, WGBH radio has a repeater at 96.3 Mc/s with the callsign W242AA, which is channel 242.

I think only some of the very earliest 1950's FM tuners had the channel numbers on them, they vanished quickly.

I don't see any channel numbers for AM broadcast in the CFR, but I may just be blind.

Basically, 1-83 are television (channel 1 having been given to the military as part of the screwing of Armstrong).

Channels 100-199 were the old FM band.

The new FM band is 201-300.

Message-Id: <199909162347.TAA08408@smtp6.mindspring.com>
Date: Thu, 16 Sep 1999 16:49:32 +0100
Subject: A novel receiver
From: "John Gibson" <gibsonj@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

There is a neat circuit in the current Radio Bygones. It is a one tube regenerative triode receiver which first appeared in Radio Craft for May 1937. The unusual touch is that the triode is a 6E5 magic eye! which acts as a tuning indicator.

John Gibson.

Date: Thu, 16 Sep 1999 20:02:15 -0400 (EDT)

From: BOBFABRIS@delphi.com
Subject: QST F/S
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01JG1TLWKKNC8XDEEW@delphi.com>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

I have two years of QST that I don't need: `59 and `66. Ten bucks each
plus shipping. Bob

From: "WF2U" <mbendror@villagenet.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Surplus / boatanchor sites in San Francisco
Date: Thu, 16 Sep 1999 20:17:50 -0400
Message-ID: <004101bf00a2$13761170$0291c0c0@meir-s_nt4.villagenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Group,

I'll be in San Francisco for a few days on business next week (most likely
will arrive on Tuesday, 9/21). I'd like to combine business with pleasure
;-) Are there any surplus/boatanchor sites to visit there?
Thanks for any info.
73, Meir WF2U

Submissions milsurplus@qth.net

Message-Id: <3.0.32.19990916193900.00832100@mail.wt.net>
Date: Thu, 16 Sep 1999 19:39:02 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@WT.NET>
Subject: BA's in the Orlando/Coco Beach area?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings all...

Will be in the Orlando/Coco Beach area next week for a couple of days.
Anyone know of any good surplus shops in the area?

Thanks,
Ben
---
Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: http://web.wt.net/~kd5byb/
"An ye harm none, do what thou wilt."

Message-ID: <37E18D4C.33AB@worldnet.att.net>
Date: Thu, 16 Sep 1999 20:37:32 -0400
From: "John Dilks, K2TQN" <oldradio@worldnet.att.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: The Old Radio Museum will be at the Marshfield Mass. Hamfest Saturday.
--info--
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Old Radio Museum will be at the Marshfield Mass. Hamfest Saturday.

To all,

The Old Radio Museum, recently seen in QST magazine, Antique Radio Classified and the AWA OTB, will be at the GENESIS AMATEUR RADIO SOCIETY Hamfest in Marshfield Mass. this Saturday, September 18th.

Marshfield is located between Boston and Plymouth Mass., just off of Rt 3. The meet is at the Marshfield Fair Grounds. It looks like the weather and the meet will be great! Hope to see you all there.

Hamfest information:
http://www.capecod.net/~tebolus/flea/flea.html

Museum information:
http://www.eht.com/oldradio/museum/

Hope to see you all there.
--
73' John Dilks, K2TQN

Please visit my OldRadio Museum
http://www.eht.com/oldradio/museum/

Message-Id: <3.0.32.19990916210647.0082da80@mail.wt.net>
Date: Thu, 16 Sep 1999 21:07:04 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@WT.NET>
Subject: Capacitors across diodes - results!
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings all...

Here is a synopsis of the opinions I received. They fell into the following catagories:

1) No capacitors are needed, and that they were only needed in the past due to the poor characteristics of early solid state diodes. The capacitor bypass, and often a resistor bypass, were to swamp out differences between individual diodes, especially in stacks of diodes where the differences in each diode could lead to voltage differences between diodes. This could in turn exceed the PIV rating of the diode.

Today's diodes are much better matched - in fact, so perfectly matched no one can really tell the difference between same manufacturer's batches.

2) They can do no harm, so why not use them? They are cheap enough. Some folks report that they regularily use them in their solid state tube-rectifier replacement designs, and have had no problems.

3) Don't use them - they cause harm by adding load to the diodes. I'm not an EE, and I'm not sure how this occurs, unless if the turn-on surge is now tougher on the diode as it not only has to supply the load, but also has to charge the capacitor. (But if the forward drop on the diode is less than a volt, that is a pretty small load, no?)

4) In power supply designs today, they are only used when the diodes are generating enough hash to cause the device to fail FCC Part 15. Some of the professional power supply engineers on the list reported that they used them in higher frequency designs (switchers?), and others noted that they did not. About 50-50 between the two camps amoung people who do this sort of thing for a living.

5) Don't use them - BA power supplies are quite tolerant of a little diode generated RFI.

One thing that quite a few people pointed out was that with my 700 CT transformer (estimated), I was running the 1kV diodes near the end of their ratings. So, since the highest voltage cap I've got banging around is 1 kV, I'm going to leave the capacitors out. That is, if I don't decide to put the 80 tube back in as the other mods I've made to the RME-45 now drop the B+ consumption down to 100 ma, a nice, sane level for the 80 rectifier... (back to the engineering "nerd pad" tablet to do some more calculations!)

Thanks to everyone that responded! Once again, I set out to get a little smarter and end up a lot smarter thanks to all the folks willing to share their knowledge!

73,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: http://web.wt.net/~kd5byb/
"An ye harm none, do what thou wilt."

```
Message-ID: <007001bf00bd$889a5d60$0c865aa5@Raccon.com>
From: "Jim Zellmer" <zellmer@raccoon.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FPM-300 belts.
Date: Thu, 16 Sep 1999 22:34:21 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="utf-8"
Content-Transfer-Encoding: 7bit
```

I just got in a batch of belts for the Hallicrafters FPM-300 bandswitch shafts.
Ordered 30 and got 18. The rest are on back order. The price is
$5.00 each including postage. It is amazing how many FPM-300s that are out there.
I have shipped out about 40 of these belts in the last two years.

TNX ES 73

Jim Zellmer, KA0VSL

End of BOATANCHORS Digest 2669
****